**Project Planning Phase**

**Milestone and Activity List**

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| Date | 28 October 2022 |
| Team ID | PNT2022TMID49396 |
| Project Name | Project - Digital naturalist AI enabled tool for biodiversity researchers |

**Milestone and Activity List:**

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| **S.No** | **Milestone** | | | **Activities** | | **Team Members** |
| 1. | Data Collection | | | Create Train and Test Folders | | Rajam Jenifer N |
| 2. | Image Preprocessing | | | Import  ImageDataGenerator  Library and Configure | | Yazhini S |
| 3. | Image Preprocessing | | | Apply  ImageDataGenerator functionality to Train and Test set | | Yazhini S |
| 4. | Model Building | | | Import the required  model building libraries | | Swetha V |
| 5. | Model Building | | | Initialize the model | | Swetha V |
| 6. | Model Building | | | Add the convolution layer | | Swetha V |
| 7. | Model Building | | | Add the pooling layer | | Swetha V |
| 8. | Model Building | | | Add the flatten layer | | Swetha V |
| 9. | Model Building | | | Adding the dense layers | | Swetha V |
| 10. | Model Building | | | Compile the model | | Swetha V |
| 11. | Model Building | | | Fit and save the model | | Swetha V |
| 12. | | | Test the Model | Import the packages and load the saved Model | | Ramya S | | |
| 13. | | | Test the Model | Load the test image, pre- process it and predict | | Ramya S | | |
| 14. | | | Application Building | Build a flask application | | Amethyst Sardonyx P | | |
| 15. | | | Application Building | Build the HTML page | | Amethyst Sardonyx P | | |
| 16. | | | Application Building | Output | | Amethyst Sardonyx P | | |
| 17. | | | Train CNN Model on IBM | Register for IBM Cloud | | Ramya S | | |
| 18. | | | Train CNN Model on IBM | Train Image Classification Model | | Ramya S | | |